

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P4 004 53 WO	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/GB 03/03904	International filing date (day/month/year) 10/09/2003	(Earliest) Priority Date (day/month/year) 20/09/2002
Applicant SOIL MACHINE DYNAMICS LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

- the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :
- contained in the international application in written form.
 - filed together with the international application in computer readable form.
 - furnished subsequently to this Authority in written form.
 - furnished subsequently to this Authority in computer readable form.
 - the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
 - the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. Certain claims were found unsearchable (See Box I).

3. Unity of invention is lacking (see Box II).

4. With regard to the title,

- the text is approved as submitted by the applicant.
- the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

- as suggested by the applicant.
- because the applicant failed to suggest a figure.
- because this figure better characterizes the invention.

1

None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB 03/03904

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F03B13/26 F03B15/00 F03B15/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 F03B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, COMPENDEX, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 01 34973 A (PAS PETER ALEXANDER JOSEPHUS) 17 May 2001 (2001-05-17) page 1, line 2 page 4, line 9 - line 22 page 6, line 13,14; figures 2,3	1-5,8, 10-14,16
Y	---	6,7
Y	---	9,15
Y	GB 2 348 250 A (I T POWER LIMITED) 27 September 2000 (2000-09-27) abstract page 10, line 3 - line 9 page 10, line 29 -page 11, line 26; figures 6,7 ----	1-5,8, 10-14,16
		-/-



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

18 December 2003

12/01/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

Criado Jimenez, F

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB 03/03904

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 02 057623 A (OCEAN POWER TECHNOLOGIES INC) 25 July 2002 (2002-07-25) page 9, paragraph 5 -page 13, paragraph 1; figures 5,5A ---	6,7
Y	FR 2 324 895 A (NEYRPIC CREUSOT LOIRE) 15 April 1977 (1977-04-15) claim 1 ---	9,15
A	US 5 440 176 A (HAINING MICHAEL L) 8 August 1995 (1995-08-08) column 2, line 23 - line 32; figures ---	1
A	US 4 754 156 A (BANDO AKIRA ET AL) 28 June 1988 (1988-06-28) column 3, line 35 -column 4, line 34 -----	2-5

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 03/03904

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 0134973	A	17-05-2001	NL AU CA EP WO NL	1013559 C2 1742101 A 2391538 A1 1228309 A1 0134973 A1 1013559 A1		28-05-2001 06-06-2001 17-05-2001 07-08-2002 17-05-2001 18-05-2001
GB 2348250	A	27-09-2000	AU AU CA EP WO US	766741 B2 2681900 A 2367715 A1 1183463 A1 0050768 A1 6652221 B1		23-10-2003 14-09-2000 31-08-2000 06-03-2002 31-08-2000 25-11-2003
WO 02057623	A	25-07-2002	EP WO US	1364124 A1 02057623 A1 2003001392 A1		26-11-2003 25-07-2002 02-01-2003
FR 2324895	A	15-04-1977	FR BR	2324895 A1 7604225 A		15-04-1977 05-04-1977
US 5440176	A	08-08-1995	AU AU CA EP JP NO	687629 B2 3423895 A 2160756 A1 0708241 A2 8210237 A 954156 A		26-02-1998 02-05-1996 19-04-1996 24-04-1996 20-08-1996 19-04-1996
US 4754156	A	28-06-1988	JP JP CA	2585233 B2 63100276 A 1266506 A1		26-02-1997 02-05-1988 06-03-1990